CONTENTS OF VOLUME VII.

Number 1. PAGE.

Brun's New Data on Volcanism ..... Alexander N. Winchell 1
Oxidation of Sulphides. (Second Paper.) V. H. Gottschalk and H. A. Buehler 15
Conditions of Mineralization in the Copper Veins at Butte, Montana, Charles T. Kirk 35
Editorial:
Geological Diagnosis ..... J. D. Irving 83
Discussion ..... Francis Church Lincoln 87
Reviews:
The Formation of Coal Beds ..... David White 89
Rock Minerals—Their Chemical and Physical Characters and their Determination in Thin Sections ..... W. S. Bayley 90
The Sedimentary Deposition of Oil ..... David White 91
Recent Literature on Economic Geology 96
Scientific Notes and News 110

Number 2.

The Plane Table in Geologic Mapping ..... F. L. Ransome 113
The Form of Salt Deposits ..... F. F. Hahn 120
Some Geologic Short Cuts ..... W. J. Mead 136
Effects of a Basic Igneous Intrusion on a Lake Superior Iron-bearing Formation ..... Carl Zapffe 145
A Peculiar Hematite Ore on the Tract of the Durham Mine, Durham, Pennsylvania ..... W. S. Bayley 179
The Occurrence and Origin of Gypsum and Anhydrite at the Ludwig Mine, Lyon County, Nevada ..... Austin F. Rogers 185
Discussion:
Graphic Diagram for Determining Dip of Strata in Cross-section, D. F. Hewitt 190
Genesis of Certain Devonian Ores ..... Joseph T. Singewald, Jr. 191
The Forms and Criteria of Replacement Ore-bodies, Blamey Stevens 195
Reviews:
Le Platine et les Gîtes Platinifères de L'Oural. By Louis Duparc, Edson S. Bastin 202
Mineralogy. By F. H. Hatch ..... Waldemar T. Schaller 203
Iron Mines and Mining in New Jersey. By W. S. Bayley, Edward Steidtman 204
Scientific Notes and News 206

Number 3.

PAGE.

Geologic Features of Tin Deposits...H. G. FERGUSON and A. M. BATEMAN 209
Some Genetic Relations of Tin Deposits .....JOSEPH T. SINGEWALD, JR. 263
Notes on the Geology of the Mina Mexico Mine.....DIBRELL P. HYNES 280
Notes on the Blue Bird Mine.....H. V. WINCHELL and A. N. WINCHELL 287
Discussion:
Criteria for Replacement Ore-bodies .....H. H. KNOX 295
The Teaching of Economic Geology to Mining Engineers,
W. S. TANGIER SMITH 297
Reviews:
Development of the World's Iron Resources 299
The Graphical Solution of Fault Problems.....HARRY FIELDING REID 301
Recent Literature on Ore Deposits.....ADOLPH KNOPF and J. B. UMPLEBY 303
Scientific Notes and News 311

Number 4.

Some Recent Developments at Leadville. A Leadville Fissure Vein,
C. MONTAGUE BUTLER 315
A Geological Study of the Elisa Mine, Sonora, Mexico..MONTROSE L. LEE 324
The Geology of the St. Helens Mining District of Washington, CARL ZAPFFE 340
The Origin of the Silver-Lead Deposits of East Kootenay, British Columbia.....S. J. SCHOFIELD 351
Occurrence of Oil and Gas Deposits Associated with Quaquaversal Structure .....FREDERICK G. CLAPP 364
The Origin of Turquoise in the Burro Mountains, New Mexico, SIDNEY PAIGE 382
Discussion:
The Teaching of Economic Geology .....C. F. TOLMAN, JR. 393
The Origin of the Anhydrite at the Ludwig Mine, Lyon County, Nevada .....J. CLAUDE JONE 400
Reviews:
The Mineral Resources of the Llano-Burnett Region, Texas, by Sidney Paige .....EDWARD STEIDTMAN 403
Recent Literature on Economic Geology, ADOLPH KNOPF and J. B. UMPLEBY 404
Scientific Notes and News 414

Number 5.

The Graphite Deposits of Ceylon .....EDSON S. BASTIN 419
Study of a Contact Metamorphic Ore-Deposit,
J. E. SPURR, G. H. GARREY, C. N. FENNER 444
Theory of Ore Deposition .....J. E. SPURR 485
The Garnet Deposits of Warren County, New York...WILLIAM J. MILLER 493
Discussion:
The Plane Table in Detailed Geologic Mapping.....D. F. HIGGINS 502
Reviews:
Types of Ore Deposits, Edited by H. Foster Bain...C. E. SIEBENTHAL 507
Scientific Notes and News 513

Number 6.

PAGE.
The Nature of Replacement ..... WALDEMAR LINDGREN 521
Temperature in Oil Regions ..... HANS V. HÖFER 536
Nigerian Tin; Its Occurrence and Origin ..... J. D. FALCONER 542
The Geologic and Structural Relations at Santa Rita (Chino), New Mexico, SIDNEY PAIGE 547
The Iron Ore Deposits of the Cebolla District, Gunnison County, Colorado, JOSEPH T. SINGEWALD, JR. 560
The Structural Relations of the Oil Fields of Crawford and Lawrence Counties, Illinois..... RAYMOND S. BLATCHLEY 574
Discussion:
The Abnormal Temperatures of the Comstock Lode, AUGUSTUS LOCKE 583
The Specific Gravity of Mixtures..... W. J. SHARWOOD 588
Recent Developments at Leadville, Colorado..... CHAS. J. MOORE 590
The Coro-Coro, Bolivia, Deposits ..... LESTER W. STRAUSS 592
The Llano-Burnett Region, Texas..... SIDNEY PAIGE 593
Reviews: J. F. KEMP; EDSON S. BASTIN; E. W. SHAW; FRANK C. SCHRADER; W. F. HUNST 595
Recent Literature on Economic Geology, ADOLPH KNOPF and J. B. UMPLEBY 607
Scientific Notes and News 616

Number 7.

Plane Table Methods as Adapted to Geologic Mapping, CARROLL H. WEGEMANN 621
The Paragenesis of Minerals ..... AUSTIN F. ROGERS 638
The Lack of Association of the Irregularities of the Lines of Magnetic Declination and the Petroleum Fields..... W. A. TARR 647
The Use of Geology in Iron Ore Exploration..... C. K. LEITH 662
Transformations and Chemical Reactions in their Application to Temperature Measurements of Geological Occurrences. (Translated by J. A. Ambler) ..... JOH. KOENIGSBERGER 676
Discussion:
The Necessity for a Theory of Differential Cementing in Prospecting for Oil ..... ROSWELL H. JOHNSON 708
Replacement of Silicious Rock by Pyrite ..... H. W. TURNER 708
Reviews:
Pillow-Lava from the Kiruna District ..... N. SUNDIUS 710
Recent Literature on Economic Geology ..... J. B. UMPLEBY 711
Scientific Notes and News 715

Number 8.

Petroleum and Natural Gas in Oklahoma ..... C. N. GOULD 719
The Origin of Sulphur Deposits (Translated by W. C. Phalen), O. STUTZER 732
The Transportation and Deposition of Gold in Nature..... VICTOR LENHER 744
Hydrothermal Alteration of Granite and the Source of Vein-Quartz at the St. Anthony Mine ..... ELWOOD S. MOORE 751
The Geology of the Graphite Deposits of Pennsylvania, BENJAMIN L. MILLER 762

Discussion: PAGE.

The Plane Table in Geologic Mapping, E. F. PELTON and D. D. IRWIN 778
A Peculiar Occurrence of Silver.....WILL H. COGHILL 783
Note on the Effect of Calcite Gangue on the Secondary Enrichment of Copper Veins.....T. W. B. WELSH and C. A. STEWART 785

Reviews:

Dana's Manual of Mineralogy (W. E. Ford) .....W. T. SHALLER 788
Mineralogy, by Alexander Hamilton Phillips .....W. T. SHALLER 789
Popular Guide to Minerals, by L. P. Gratacap .....W. T. SHALLER 790

Scientific Notes and News 791
Index 796